PATENT COOPERATION TREATY

	From the INTERNATIONAL BUREAU				
PCT	То:				
NOTIFICATION OF ELECTION (PCT Rule 61.2)	United States Patent and Trademark Office (Box PCT) Crystal Plaza 2 Washington, DC 20231 ÉTATS-UNIS D'AMÉRIQUE				
Date of mailing (day/month/year) 25 June 1999 (25.06.99)	in its capacity as elected Office				
International application No. PCT/US98/18685	Applicant's or agent's file reference MGA-004.25				
International filing date (day/month/year) 08 September 1998 (08.09.98)	Priority date (day/month/year) 08 September 1997 (08.09.97)				
Applicant					
ELMALEH, David, R. et al					
The designated Office is hereby notified of its election mad in the demand filed with the International Preliminary 08 April 1999 in a notice effecting later election filed with the International Preliminary 2. The election was was not made before the expiration of 19 months from the priority Rule 32.2(b).	y Examining Authority on: (08.04.99) national Bureau on:				

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

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P NT COOPERATION TREATY

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09/530818

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference MGA-004.25	FOR FURTHER SE (FO	e Notification of Transmittal or orm PCT/ISA/220) as well as,	f International Search Report where applicable, item 5 below.
International application No.	International filing date (day/n	nonth/year) (Earliest) Pr	iority Date (day/month/year)
PCT/US 98/18685	08/09/1998	3	08/09/1997
Applicant			
THE GENERAL HOSPITAL CORPO	ORATION et al.		
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International and insmitted to the International Bu	Searching Authority and is tra	insmitted to the applicant
This International Search Report consists It is also accompanied by a copy		sheets. d in this report.	
Certain claims were found uns	searchable(see Box I).		
2. Unity of invention is lacking(s	ee Box II).		
The international application con international search was carried	itains disclosure of a nucleotide out on the basis of the sequenc	e and/or amino acid sequen	ce listing and the
filed	with the international applicatio	n.	
furni	shed by the applicant separatel	y from the international applic	ation,
[statement to the effect that it of sclosure in the international a	
Tran	scribed by this Authority		
	ext is approved as submitted by	•••	
trie t	ext has been established by this	s Authority to read as follows:	
5. With regard to the abstract,			
	ext is approved as submitted by	the applicant	•
the t	ext has been established, acco III. The applicant may, within or rch Report, submit comments to	rding to Rule 38.2(b), by this Ane month from the date of mail	Authority as it appears in ling of this International
The figure of the drawings to be public	shed with the abstract is:		
	uggested by the applicant.		None of the figures.
beca	suse the applicant failed to sugg	jest a figure.	
. beca	use this figure better characteri	zes the invention.	
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What is claimed is:

- 1. A cardiovascular imaging agent comprising a radionuclide wherein said radionuclide is associated with a targeting moiety, said targeting moiety comprising an infection-specific agent.
- 2. The agent of claim 1, wherein said targeting moiety binds to moieties characteristic of an infection process.
 - 3. The agent of claim 2, wherein said infection process is inflammation.
 - 4. The agent of claim 1, wherein said targeting moiety is a leukocyte.
 - 5. The agent of claim 1, wherein said targeting moiety is a protein.
 - 6. The agent of claim 5, wherein said protein is a chemotactic peptide.
 - 7. The agent of claim 6, wherein said chemotactic peptide is For-MLF.
 - 8. The agent of claim 5, wherein said protein is an antibody or fragment thereof.
- 9. The agent of claim 1, wherein said radionuclide is selected from the group consisting of ¹²³I, ^{99m}Tc, ¹⁸F, ⁶⁸Ga, ⁶²CU, and ¹¹¹In.
- 10. The agent of claim 9, wherein said agent comprises the product of combining said targeting moiety or precursor thereof with a chelating compound which chelates said radionuclide.
- 11. The agent of claim 10, wherein said chelating compound is selected from the group consisting of an -N₂S₂ structure, an -NS³ structure, an -N₄ structure, an isonitrile, a hydrazine, a HYNIC group-containing structure, 2-methylthiolnicotinic acid group-containing structure, a carboxylate-group containing structure, an amino carboxylate, and a phenolate.
 - 12. The agent of claim 11, wherein said radionuclide is ^{99m}Tc.
- 13. A method of imaging cardiovascular tissue in a mammal, comprising administering to the mammal said agent of claim 1.
- 14. The method of claim 13, wherein the method detects a cardiovascular lesion in a mammal, said method comprising the steps of administering to the mammal said agent, detecting the spatial distribution of said agent accumulated in the mammal's cardiovascular system, wherein a detected accumulation of said agent in a region which is different from the detected accumulation of said agent in other regions is indicative of a lesion.

WO 99/12579 PCT/US98/18685

15. The method of claim 14, wherein said cardiovascular lesion is an atheroscierotic lesion.

- 16. A method of imaging a thrombus in a mammal, comprising administering to the mammal said imaging agent of claim 1.
- 17. A kit for cardiovascular imaging, comprising a supply of the imaging agent or a precursor of the imaging agent of claim 1.
 - 18. The kit of claim 17, further comprising at least one chelating agent, each chelating agent comprising an auxiliary molecule selected from the group consisting of mannitol, gluconate, glucoheptonate, and tartrate; and a reducing agent.
 - 19. The kit of claim 18, wherein said reducing agent contains tin.
 - The kit of claim 18, wherein the radionuclide of said imaging agent is selected from the group consisting of ¹²³I, ^{99m}Tc, ¹⁸F, ⁶⁸Ga, ⁶²CU, and ¹¹¹In.
 - The kit of claim 20, wherein said chelating agent(s) is (are) selected from the group consisting of an $-N_2S_2$ structure, an $-NS^3$ structure, an $-N_4$ structure, an isonitrile, a hydrazine, a HYNIC group-containing structure, 2-methylthiolnicotinic acid group-containing structure, a carboxylate-group containing structure, an animo carboxylate, and an amino phenolate.
 - 22. The kit of claim 21, wherein the radionuclide is ^{99m}Tc.

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17 m.H



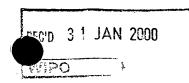
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference MGA-004.25			FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International		eation No	International filing date (day/mon	th/year)	Priority date (day/month/year)	
PCT/US98/18685 08/09/1998 08/09/1997					· ·	
International	Pater	nt Classification (IPC) or nat	ional classification and IPC			
A61K51/0						
Applicant						
• •	IERA	L HOSPITAL CORPO	PRATION et al.			
					Air and Declinations Examining Authority	
1. This in	terna	tional preliminary examit mitted to the applicant a	nation report has been prepare coording to Article 36	ed by this Inte	ernational Preliminary Examining Authority	
and is	lians	illitted to the applicant a	ocording to rations so.			
		DT consists of a total of	10 sheets, including this cove	r sheet		
2. This H	EPO	HI CONSISIS OF A TOTAL OF		oneet.		
⊠ Th	nis re	oort is also accompanied	by ANNEXES, i.e. sheets of t	he descriptio	n, claims and/or drawings which have	
be	en a	mended and are the bas	is for this report and/or sheets 07 of the Administrative Instruc	containing re	ectifications made before this Authority	
(s	ee Ri	ile 70.16 and Section 60)/ Of the Administrative histrac	lions under ti	161 01).	
These	anne	exes consist of a total of	3 sheets.			
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3. This re	eport	contains indications rela	ting to the following items:			
ı	\boxtimes	Basis of the report			-	
 	⊠	Basis of the report			-	
1 11 111		Priority	pinion with regard to novelty, i	nventive step	and industrial applicability	
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US98/18685

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1.	resp	onse to an invitati	drawn on the basis of (subst ion under Article 14 are refe io not contain amendments.	rred to in this report	nave been furnish as "originally file	ed to the receiving Of d" and are not annexe	fice i ed to
	Des	cription, pages:					
	1-13	3	as originally filed				
	Clai	ims, No.:					
	1-18	3	as received on	28/10/1999	with letter of	28/10/1999	
			•				
2.	The	amendments have	e resulted in the cancellation	n of:		•	
		the description,	pages:				
	⊠	the claims,	Nos.: 19-22				
		the drawings,	sheets:				
3.		This report has be considered to go	een established as if (some beyond the disclosure as fil	of) the amendment ed (Rule 70.2(c)):	s had not been m	ade, since they have	beer
4.	Add	iitional observatior	ns, if necessary:				
Ш	. No	n-establishment o	of opinion with regard to n	ovelty, inventive s	step and industri	al applicability	*
Th or	ne qu to b	uestions whether the industrially applic	ne claimed invention appear cable have not been examir	s to be novel, to inv ned in respect of:	olve an inventive	step (to be non-obvio	ous),
		the entire interna	tional application.				
	×	claims Nos. 1-18					
be	cau	se:					
	×	the said internation	onal application, or the said	claims Nos. 1-18 re	elate to the follow	ing subject matter whi	ch

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US98/18685

-	s separate she t			•	-				
	the description, claims of that no meaningful opin	or drawi ion coul	ngs (<i>indic</i> ld be form	eate particular ed (specify):	elements l	<i>below</i>) or s	aid claims Nos	are so ur	ıclear
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	the claims, or said clain could be formed.	ns Nos.	are so in	adequately su	ipported by	the descri	iption that no m	ieaningful (opinion
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V.	Reasoned statement unde applicability; citations and	r Articl I explar	e 35(2) w nations s	ith regard to upporting su	novelty, ir ch statem	nventive si ent	ep or industri	ai . /	
	04-4								
1.	Statement	•					•		
	Novelty (N)	Yes: No:	Claims Claims	1-18					•
	Inventive step (IS)	Yes: No:	Claims Claims					٠	
٠	Industrial applicability (IA)	Yes: No:	Claims Claims	see sections	s III and V	·			
		•							
. 2.	Citations and explanations								
	see separate sheet		•	,					
V	I. Certain documents cited				•				
1.	. Certain published documen	its (Rule	70.10)						
	and / or					. •			
2	. Non-written disclosures (Ru	ule 70.9)						
	see separate sheet								

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US98/18685

VIII. C rtain obs rvations on th int rnational application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Section I:

Amendments

The amended claims are allowable under Article 34 (2) b) PCT.

Section III:

Claims 1 to 18 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).

Section V:

Prior art

Reference is made to the following documents:

D1 (HOM R K ET AL: 'Technetium-99m-Labelled Receptor-Specific Small- Molecule Radiopharmaceuticals: Recent Developments and Encouraging Results' NUCLEAR MEDICINE AND BIOLOGY, vol. 24, no. 6, August 1997, page 485-498) describes the use of technetium-99m-labelled receptor-specific small-molecule radiopharmaceuticals (title) for the manufacture of a medicament for routine diagnostic nuclear medicine procedures (page 485, right col., line 10), e.g. perfusion of heart and brain as well as images of renal function (page 485, right col., lines 11 to 20).

D2 (VAIDYANATHAN G ET AL: 'Fluorine-18 Labelled Chemotactic Peptides: A Potential Approach for the PET Imaging of Bacterial Infection' NUCLEAR MEDICINE AND BIOLOGY, vol. 22, no. 6, August 1995, page 759-764) discloses the use of fluorine-18 labelled chemotactic peptides for the PET imaging of bacterial infection (title). The derivatized peptide binds to human polymorphonuclear leukocytes (abstract).

D4 (MAHMOOD A ET AL: 'A New Approach to Labelling Cells with Technetium- 99m, Part I Preparation of Modified Polylysine and In Vitro Cell Labelling' NUCLEAR MEDICINE AND BIOLOGY, vol. 23, no. 1, January 1996, page 79-85) is directed to an approach to label cells with technetium-99m (title). A modified polylysine is labelled with technetium-99m (abstract).

D5 (BABICH J W ET AL: 'Effect of @?Co-ligand@? on the Biodistribution of Tclabelled Hydrazine Nicotinic Acid Derivatized Chemotactic Peptides' NUCLEAR MEDICINE AND BIOLOGY, vol. 22, no. 1, January 1995, page 25-30) relates to the effect of "co-ligand" on the biodistribution of 99mTc-labelled hydrazine nicotinic acid derivatized chemotactic peptides (title). Said compounds are useful for infection imaging (abstract).

D5 is authored by the inventors of the present application.

D8 (EP-A-0 419 203) provides a method for direct radiolabelling of a monovalent, e.g.,. Fab or Fab', antibody fragment which is rapid and convenient and which results in a labelled fragment ready for direct injection into a patient (col. 1, lines 40 to 45).

D9 (WO 95 06633 A) is related to chelators that bind diagnostically and therapeutically useful metal radionuclides, and can be conjugated to targeting agents such as proteins and peptides (page 9. lines 3 to 5) capable of localizing at body sites of diagnostic and therapeutic interest, e.g. atherosclerotic plaque (page 9, lines 3 to 5). The chelators of the present invention are peptide analogues designed structurally to present an $N_2 \\S_2$ configuration capable of binding oxo, dioxo and nitrido ions of 99m technetium and ^{186/188}rhenium (page 2, lines 16 to 21).

D10 (WO 95 03280 A) is directed to the same subject as D9. The chelators of the present invention are peptide analogues designed structurally to present an N₃S configuration capable of binding oxo, dioxo and nitrido ions of 99mtechnetium and 186/188rhenium (page 2, lines 31 to 37).

D12 (WO 95 11045 A) relates to a substantially non-invasive method for imaging infection or inflammation sites based upon the discovery that detectably labelled chemotactic peptides injected systemically into animals accumulate at sites of local infection (page 8, lines 25 to 28).

D13 (WO 93 12819 A) relates to protein-based and peptide-based metal ion-labelled compositions for use as pharmaceuticals, and methods of labelling peptides, proteins and other similar substances with radiometals, paramagnetic metals and other medically useful metal ions, and further providing for use of medically useful metal ionlabelled peptides for detection of thrombus, cancer, infection, inflammation and various lung diseases, pathologies and abnormalities (page 1, lines 5 to 13).

D14 (WO 91 02547 A) is concerned with scintigraphic detection of thrombi in mammals including humans. However, substances and processes developed to facilitate detection of thrombi may also have usefulness for other imaging such as of tumours. It has already been proposed to label various proteins for antibodies with radiometal ions for scintigraphic or therapeutic applications. Labelling has been with technetium-99m because of its advantageous physical properties. Of particular interest has been the use of monoclonal antibodies raised against specific antigens (page 1, lines 9 to 19).

D15 (WO 90 10463 A) involves improved imaging of tissue sites of inflammation. Improved diagnostic images result from an increase in the number of labelled leukocytes in the area of the inflammation or from improved selectivity of antibodies or peptides for activated leukocytes in sites of inflammation versus non-activated leukocytes in the circulation (page 1, lines 5 to 12).

D16 (WO 97 10853 A) is directed to the use of chelators containing nicotinamide as a medicament for the radio diagnosis (page 1, lines 4 to 11). Metallic radionuclides, especially technetium-99m are use for said diagnosis (page 2, lines 10 to 12).

D6 (LIU S ET AL: 'Tc-labelling Kinetics of Four Thiol-containing Chelators and 2-Hydrazinopyridine: Factors Influencing Their Radiolabelling Efficiency' APPLIED RADIATION AND ISOTOPES, vol. 48, no. 8, August 1997, page 1103-1111) describes the 99mTc-labelling kinetics of four thiol-containing chelators and 2- hydrazinopyridine.

D11 (WO 96 31243 A) relates to novel radiopharmaceuticals which are useful as imaging agents for the diagnosis of cardiovascular disorders, infectious disease and cancer, and to kits useful for their preparation. The radiopharmaceuticals are

comprised of phosphine or arsine ligated technetium-99m labelled hydrazine or diazino modified biologically active molecules that selectively localize at sites of disease and thus allow an image to be obtained of the loci using gamma scintigraphy (page 1, lines 15 to 24; page 5, lines 14 to 28).

Novelty

The subject-matter of claims 1 to 18 is not new in the sense of Article 33 (2) PCT.

Generally, every imaging agent comprising the same as in claim 1 which is suitable to be administered cardiovascular, anticipates novelty of present claim 1.

Therefore, for the present claims 1 to 18 the following applies:

D1 anticipates novelty of claims 1, 2 (page 485, left col., §1), 3, 6 and 7 (page 492, right col., molecule no. 29), 8 to 11 (page 485, right col., lines 18 to 20).

D2 anticipates novelty of present claims 1, 2, 5 (abstract), 8 to 12 (table 1).

D4 anticipates novelty of present claims 1, 2 5.

D5 anticipates novelty of present claims 1 to 4, 6 and 7, 8 to 11 (table 1), 12 to 18 (table 1; page 27, right col., §3).

D8 anticipates novelty of claims 1 to 4, 6 and 7, 8 to 11, 12, 13 (col. 2, lines 12 to 20), 14 to 17.

D9 anticipates novelty of claims 1 to 4, 6 and 7 (example 4), 8 to 11, 12 to 17.

D10 anticipates novelty of claims 1 to 4, 6 and 7, 8 to 11, 12 to 14 (example 12), 15 to 17.

D12 anticipates novelty of present claims 1, 2 (page 27, lines 1 to 15), 3, 4, 5 (page 75, example 102), 6 and 7 (page 26, lines 1 to 8), 8 to 11 (page 52, lines 20 to 27), 12 to 18 (example 102).

INTERNATIONAL PRELIMINARY Inter EXAMINATION REPORT - SEPARATE SHEET

D13 anticipates novelty of present claims 1, 2 (example 2), 3, 4, 6 and 7 (page 1, last line), 8 to 11, 12 to 17 (example 2).

D14 anticipates novelty of present claims 1, 2, 4 (claim 8), 8 to 11, 12 to 14 (example 2, item 4.), 15.

D15 anticipates novelty of present claims 1 to 3 (claims 1 and 7), 4, 5, 6 and 7 (claim 30), 8, 9, 10 and 11, 12, 13 to 17, 18, 19 (example 10), 20 to 22.

1, 2 (claim 7), 3, 4 (example 1), 5, 6 and 7 (claim 2), 8 to 11 (claim 4), 12 to 14 (example 10), 15 to 18.

D16 anticipates novelty of present claims 1 to 3 (page 4, line 16), 6 and 7 (page 6, lines 26ff), 8 to 11 (claim 15), 12 to 14 (page 4, lines 31 to 35), 15 to 17.

As D6 is silent to the targeting moiety, it does not anticipate novelty of present claims.

As D11 contains another compound (with phosphine or arsine), it does not anticipate novelty of present claims.

Inventive step

Even if the applicant is able to establish novelty it cannot be seen that any particular aspect of the application as filed would involve an inventive step under Article 33 (3) PCT in the light of the relevant prior art.

Industrial applicability

For the assessment of the present claims 1 to 18 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow, however, claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.



Section VI:

The applicant should pay attention to D3 and D7 (D3: WELLING M ET AL: 'Detection of Experimental Infections with Tc-Labelled Monoclonal Antibodies Against TNF-alpha and Interleukin-8' NUCLEAR MEDICINE AND BIOLOGY, vol. 24, no. 7, October 1997, page 649-655; D7: DINKELBORG L. M. ET AL: 'Molecular imaging of atherosclerosis using a technetium-99m-labelled endothelin derivative' J. NUCL MED, vol. 39, no. 10, October 1998, pages 1819-1822, XP002089860 & DINKELBORG L. M. ET AL: 'Characterization of a technetium-99m-endothelin derivative for imaging atherosclerosis in a rabbit balloon denudation model' J NUCL MED, vol. 38, no. suppl, 1997, page 173p) which does not constitute prior art within the meaning of Rule 64.1 (b) PCT and which could be relevant as a state in the art document in the national phases, if the priority is not valid.

Section VIII:

Article 6 PCT

The terms "component of a process involved in plaque formation", "auxiliary molecule and "... cells, ..." used in claims 1/12, 4 and 5/18 are vague and unclear and leave the reader in doubt as to the meaning of the technical features to which they refer, thereby rendering the definition of the subject-matter of said claims unclear (Article 6 PCT).

The features of claims 7 and 16 "amino carboxylate, phenolate and amino phenolate" are not referred to in the description. Claims 7 and 16 are therefore not supported by the description as required by Article 6 PCT.

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DE	Germany	LI	Liechtenstein	SD	Sudan		
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EE	Estonia	LR	Liberia	SG	Singapore		